

1646

RAW SEQUENCE LISTING

DATE: 08/17/2000

PATENT APPLICATION: US/09/150,947B

TIME: 10:26:19

Input Set : A:\SubstSequence09150947.txt

Output Set : N:\CRF3\08162000\I150947B.raw

5 <110> APPLICANT: APPLICANT: Kaempfer, Raymond
 6 Arad, Gila
 8 <120> TITLE OF INVENTION: TITLE: BROAD SPECTRUM PYROGENIC EXOTOXINS
 9 ANTAGONISTS AND VACCINES
 11 <130> FILE REFERENCE: DOCKET/FILE REFERENCE: A31967-PCT-USA-A
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/150,947B
 C--> 14 <141> CURRENT FILING DATE: 1998-09-10
 16 <150> PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: PCT/IL97/00438
 W--> 17 <151> PRIOR FILING DATE: FILING DATE: 1997-12-30
 19 <150> PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: ISRAEL 119938
 W--> 20 <151> PRIOR FILING DATE: FILING DATE: 1996-12-30
 E--> 22 <160> NUMBER OF SEQ ID NOS: NUMBER OF SEQUENCES: 12
 24 <170> SOFTWARE: SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

E--> 26 <210> SEQ ID NO: SEQ ID NO:1
 27 <211> LENGTH: LENGTH: 26
 E--> 28 <212> TYPE: TYPE: PRT
 29 <213> ORGANISM: ORGANISM: Staphylococcus aureus
 E--> 31 <400> SEQUENCE: SEQ ID NO:1
 32 Ser Glu Gln Glu Asn Cys Glu Leu Ile Ser Thr Ile Asn Gly Thr Asn
 33 1 5 10 15
 34 Lys Lys Lys Val Thr Ala Gln Glu Leu Asp
 35 20 25
 E--> 37 <210> SEQ ID NO: SEQ ID NO:2
 38 <211> LENGTH: LENGTH: 12
 E--> 39 <212> TYPE: TYPE: PRT
 40 <213> ORGANISM: ORGANISM: Staphylococcus aureus
 E--> 42 <400> SEQUENCE: SEQ ID NO:2
 43 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
 44 1 5 10
 E--> 46 <210> SEQ ID NO: SEQ ID NO:3
 47 <211> LENGTH: LENGTH: 10
 E--> 48 <212> TYPE: TYPE: PRT
 49 <213> ORGANISM: ORGANISM: Staphylococcus aureus
 E--> 51 <400> SEQUENCE: SEQ ID NO:3
 52 Lys Lys Lys Val Thr Ala Gln Glu Leu Asp
 53 1 5 10
 E--> 55 <210> SEQ ID NO: SEQ ID NO:4
 56 <211> LENGTH: LENGTH: 10
 E--> 57 <212> TYPE: TYPE: PRT
 58 <213> ORGANISM: ORGANISM: Staphylococcus aureus
 E--> 60 <400> SEQUENCE: SEQ ID NO:4
 61 Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
 62 1 5 10

Does Not Comply
 Corrected Diskette Needed

see pp. 1, 2, 3

All errors caused by applicant typing in "Alpha Headings". The computer program generates these automatically. All that is needed is the numerical heading and response. All errors in the listing are due to this.

* These errors have been edited.

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```

E--> 64 <210> SEQ ID NO: SEQ ID NO:5
      65 <211> LENGTH: LENGTH: 13
E--> 66 <212> TYPE: TYPE: PRT
      67 <213> ORGANISM: ORGANISM:Staphylococcus aureus
W--> 69 <220> FEATURE: FEATURE:
W--> 70 <221> NAME/KEY: NAME/KEY: LIPID
      71 <222> LOCATION: LOCATION: (1)...(1)
      72 <223> OTHER INFORMATION: OTHER INFORMATION: N-lauryl cysteine residue
E--> 74 <400> SEQUENCE: SEQ ID NO:5
      75 Cys Thr Asn Lys Lys Lys Val Thr Ala Gln Glu Leu Asp
      76   1             5             10
E--> 78 <210> SEQ ID NO: SEQ ID NO:6
      79 <211> LENGTH: LENGTH: 13
E--> 80 <212> TYPE: TYPE: PRT
      81 <213> ORGANISM: ORGANISM:Staphylococcus aureus
W--> 83 <220> FEATURE: FEATURE:
W--> 84 <221> NAME/KEY: NAME/KEY: LIPID
      85 <222> LOCATION: LOCATION: (1)...(1)
      86 <223> OTHER INFORMATION: OTHER INFORMATION: N-lauryl cysteine residue
E--> 88 <400> SEQUENCE: SEQ ID NO:6
      89 Cys Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
      90   1             5             10
E--> 92 <210> SEQ ID NO: SEQ ID NO:7
      93 <211> LENGTH: LENGTH: 16
E--> 94 <212> TYPE: TYPE: PRT
      95 <213> ORGANISM: ORGANISM:Staphylococcus aureus
E--> 97 <400> SEQUENCE: SEQ ID NO:7
      98 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Tyr Asn Lys Lys
      99   1             5             10             15
E--> 101 <210> SEQ ID NO: SEQ ID NO:8
      102 <211> LENGTH: LENGTH: 35
E--> 103 <212> TYPE: TYPE: PRT
      104 <213> ORGANISM: ORGANISM:Staphylococcus aureus
E--> 106 <400> SEQUENCE: SEQ ID NO:8
      107 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Tyr Asn Lys Lys
      108   1             5             10             15
      109 Lys Ala Thr Val Gln Glu Leu Asp Tyr Asn Lys Lys Lys Ala Thr Val
      110             20             25             30
      111 Glu Leu Asp
      112             35
E--> 114 <210> SEQ ID NO: SEQ ID NO:9
      115 <211> LENGTH: LENGTH: 14
E--> 116 <212> TYPE: TYPE: PRT
      117 <213> ORGANISM: ORGANISM:Staphylococcus aureus
W--> 119 <220> FEATURE: FEATURE:
W--> 120 <221> NAME/KEY: NAME/KEY: DISULFID
      121 <222> LOCATION: LOCATION: (1)...(1)
W--> 123 <221> NAME/KEY: NAME/KEY: DISULFID
      124 <222> LOCATION: LOCATION: (14)...(14)

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Input Set : A:\SubstSequence09150947.txt
 Output Set: N:\CRF3\08162000\I150947B.raw

```

E--> 126 <400> SEQUENCE: SEQ ID NO:9
      127 Cys Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Cys
      128 1 5 10
E--> 130 <210> SEQ ID NO: SEQ ID NO:10
      131 <211> LENGTH: LENGTH: 14
E--> 132 <212> TYPE: TYPE: PRT
      133 <213> ORGANISM: ORGANISM:Staphylococcus aureus
W--> 135 <220> FEATURE: FEATURE:
W--> 136 <221> NAME/KEY: NAME/KEY: MOD_RES
      137 <222> LOCATION: LOCATION: (1)...(1)
      138 <223> OTHER INFORMATION: OTHER INFORMATION: D-alanine
W--> 140 <221> NAME/KEY: NAME/KEY: MOD_RES
      141 <222> LOCATION: LOCATION: (14)...(14)
      142 <223> OTHER INFORMATION: OTHER INFORMATION: D-alanine
E--> 144 <400> SEQUENCE: SEQ ID NO:10
      145 Xaa Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Xaa
      146 1 5 10
      149 <211> LENGTH: LENGTH: 13
E--> 150 <212> TYPE: TYPE: PRT
      151 <213> ORGANISM: ORGANISM:Staphylococcus aureus
W--> 153 <220> FEATURE: FEATURE:
W--> 154 <221> NAME/KEY: NAME/KEY: ACETYLTATION
      155 <222> LOCATION: LOCATION: (1)...(1)
      156 <223> OTHER INFORMATION: OTHER INFORMATION: N-acetyl group
W--> 158 <221> NAME/KEY: NAME/KEY: MOD_RES
      159 <222> LOCATION: LOCATION: (13)...(13)
      160 <223> OTHER INFORMATION: OTHER INFORMATION: D-alanine
E--> 162 <400> SEQUENCE: SEQ ID NO:11
      163 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Xaa
      164 1 5 10
      167 <211> LENGTH: LENGTH: 239
E--> 168 <212> TYPE: TYPE: PRT
      169 <213> ORGANISM: ORGANISM:Staphylococcus aureus
E--> 171 <400> SEQUENCE: SEQ ID NO:12
      172 Glu Ser Gln Pro Asp Pro Lys Pro Asp Glu Leu His Lys Ser Ser Lys
      173 1 5 10 15
      174 Phe Thr Gly Leu Met Glu Asn Met Lys Val Leu Tyr Asp Asp Asn His
      175 20 25 30
      176 Val Ser Ala Ile Asn Val Lys Ser Ile Asp Gln Phe Leu Tyr Phe Asp
      177 35 40 45
      178 Leu Ile Tyr Ser Ile Lys Asp Thr Lys Leu Gly Asn Tyr Asp Asn Val
      179 50 55 60
      180 Arg Val Glu Phe Lys Asn Lys Asp Leu Ala Asp Lys Tyr Lys Asp Lys
      181 65 70 75 80
      182 Tyr Val Asp Val Phe Gly Ala Asn Tyr Tyr Tyr Gln Cys Tyr Phe Ser
      183 85 90 95
      184 Lys Lys Thr Asn Asp Ile Asn Ser His Glu Thr Asp Lys Arg Lys Thr
      185 100 105 110
      186 Cys Met Tyr Gly Gly Val Thr Glu His Asn Gly Asn Gln Leu Asp Lys

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187          115          120          125
188 Tyr Arg Ser Ile Thr Val Arg Val Phe Glu Asp Gly Lys Asn Leu Leu
189          130          135          140
190 Ser Phe Asp Val Gln Thr Asn Lys Lys Lys Val Thr Ala Gln Glu Leu
191          145          150          155          160
192 Asp Tyr Leu Thr Arg His Tyr Leu Val Lys Asn Lys Lys Leu Tyr Glu
193          165          170          175
194 Phe Asn Asn Ser Pro Tyr Glu Thr Gly Tyr Ile Lys Phe Ile Glu Asn
195          180          185          190
196 Glu Asn Ser Phe Trp Tyr Asp Met Met Pro Ala Pro Gly Asp Lys Phe
197          195          200          205
198 Asp Gln Ser Lys Tyr Leu Met Met Tyr Asn Asp Asn Lys Met Val Asp
199          210          215          220
200 Ser Lys Asp Val Lys Ile Glu Val Tyr Leu Thr Thr Lys Lys Lys
201          225          230          235

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VERIFICATION SUMMARY

DATE: 08/17/2000

PATENT APPLICATION: US/09/150,947B

TIME: 10:26:21

Input Set : A:\SubstSequence09150947.txt

Output Set: N:\CRF3\08162000\I150947B.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:22 M:212 E: (34) Invalid or duplicate Sequence ID Number, Number Of Sequences Unknown
L:26 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:28 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:31 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:37 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:39 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:42 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:46 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:48 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:51 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:55 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:57 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:60 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:64 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:66 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:69 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:74 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:78 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:80 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:83 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:84 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:88 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:92 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:94 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:97 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:101 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:103 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:106 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:114 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:116 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:119 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:120 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:123 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:126 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:130 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:132 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:135 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:136 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:140 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:144 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:148 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:150 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:153 M:256 W: Invalid Numeric Header Field, <220> has non-blank data

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DATE: 08/17/2000

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TIME: 10:26:21

Input Set : A:\SubstSequence09150947.txt

Output Set: N:\CRF3\08162000\I150947B.raw

L:154 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:158 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:0
L:162 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:166 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:168 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:171 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:22 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (12)